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Complete if Known	
Application Number	09/671,089
Filing Date	September 27, 2000
First Named Inventor	Daniel J. O'Mahony et al.
Group Art Unit	1653
Examiner Name	Holly G. Schnizer
Attorney Docket Number	E1067/20018
Customer Number	31717

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OCT 29 2002**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		Number	Kind Code (if known)		
SS		4,244,946		Rivier et al.	01/13/1981
SS		4,305,872		Johnston et al.	12/15/1981
SS		4,316,891		Guillemin et al.	02/23/1982
SS		4,675,189		Kent et al.	06/23/1987
SS		6,117,632		O'Mahony	09/12/2000
SS		6,248,558 B1		Lin et al.	06/19/2001
SS		6,346,613 B1		O'Mahony et al.	02/12/2002
SS		6,361,938 B1		O'Mahony et al.	03/26/2002
SS		6,423,334 B1		Brayden et al.	07/23/2002

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	T
		Office	Number	Kind Code (if known)			
SS			WO 99/49879		Vanderbilt University	10/07/1999	
SS			WO 99/64449		The Queens University of Belfast	12/16/1999	

OTHER DOCUMENTS - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T
SS		MERRIFIELD, R., "Solid Phase Peptide Synthesis. I. The Synthesis of a Tetrapeptide", J. Am. Chem. Soc., Vol. 85, July 20, 1963, pp. 2149-2154	
SS		SUN, T., et al.; "Topography of Ribosomal Proteins of the Escherichia coli 30S Subunit as Studied with the Reversible Cross-Linking Reagent Methyl 4-Mercaptobutyrimidate†" Biochemistry; Vol. 13; No. 11; 1974; pp. 2334-2340	
SS		LOMANT, A.J., et al.; "Chemical Probes of Extended Biological Structures: Synthesis and Properties of the Cleavable Protein Cross-linking Reagent [³⁵ S] Dithiobis (succinimidyl propionate)" J. Mol. Biol.; 104; 1976; pp. 243-261	
SS		CARLSSON, J., et al.; "Protein Thiolation and Reversible Protein-Protein Conjugation"; Biochemistry J.; 173; 1978; pp. 723-737	
SS		JUE, R., et al.; "Addition of Sulphydryl Groups to Escherichia coli Ribosomes by Protein Modification with 2-Iminothiolane (Methyl 4-Mercaptobutyrimidate)†" Biochem; 1978; Vol. 17; pp. 5399-5405	
SS		HUTCHISON, C., et al.; "Mutagenesis at a Specific Position in a DNA Sequence"; The Journal of Biological Chemistry; Vol. 253; No. 18; September 25, 1978; pp. 6551-6560	
SS		YOSHITAKE, et al.; "Conjugation of Glucose Oxidase from Aspergillus niger and Rabbit Antibodies Using N-Hydroxysuccinimide Ester of N-(4-Carboxycyclohexylmethyl)-Maleimide, Eur. J. Biochem; 101; 1979; pp. 395-399	
SS		LIU, F., et al.; "New Procedures for Preparation and Isolation of Conjugates of Proteins and a Synthetic Copolymer of D-Amino Acids and Immunochemical Characterization of Such Conjugates", Biochemistry; 1979; Vol. 18; No. 4; pp. 690-697	

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SS	3	PILCH, P., et al.; "Interaction of Cross-Linking Agents with the Insulin Effector System of Isolated Fat Cells"; The Journal of Biological Chemistry, Vol. 254; 1979; pp. 3375-3381
SS	4	YOULE, R., et al.; "Anti-Thy 1.2 monoclonal antibody linked to ricin is a potent cell-type-specific toxin"; Proc. Natl. Acad. Sci. USA; Vol. 77; No. 9; September 1980; pp. 5483-5486
SS		RANGER AND PEPPAS, "Mathematical Modeling of Diffusion Processes in Drug Delivery Polymeric Systems", J. Macromol. Sci. Rev. Macromol. Chem., Chapter 7, 1983, pp. 203-237
SS		MÄRKI, W., et al., "Total Solid-Phase Synthesis of Porcine Gut Gastrin Releasing Peptide (GRP), a Mammalian Bombesin", J. Am. Chem. Soc., Vol. 103, 1981, pp. 3178-3185
SS		VALE, W., et al.; "Characterization of a 41-Residue Ovine Hypothalamic Peptide that Stimulates Secretion of Corticotropin and β -Endorphin"; Science; Vol. 213; September 18, 1981; pp. 1394-1397
SS	5	LERNER, R., et al.; "Chemically synthesized peptides predicted from the nucleotide sequence of the hepatitis B virus genome elicit antibodies reactive with the native envelope protein of Dane particles"; Proc. Natl. Acad. Sci. USA; Vol. 78; No. 6; June 1981; pp. 3403-3407
SS		YOSHITAKE, S., et al.; "Mild and Efficient Conjugation of Rabbit Fab' and Horseradish Peroxidase Using a Maleimide Compound and Its Use for Enzyme Immunoassay"; J. Biochem.; 92; 1982; pp. 1413-1424
SS		STAROS, J., "N-Hydroxysulfosuccinimide Active Esters: Bis(N-hydroxysulfosuccinimide) Esters of Two Dicarboxylic Acids are Hydrophilic, Membrane-Impermeant, Protein Cross-Linkers"; Biochemistry; Vol. 21; 1982; pp. 3950-3955
SS		JUNG, S., et al.; "Crosslinking of Platelet Glycoprotein Ib By N-Succinimidyl (4-Azidophenyl)dithio) Propionate and 3,3'-Dithiobis (Sulfosuccinimidyl Propionate)"; Biochimica Acta; 761; 1983; pp. 152-162
SS		HASHIDA, S., et al., "More Useful Maleimide Compounds for the Conjugation of Fab' to Horseradish Peroxidase through Thiol Groups in the Hinge"; Journal of Applied Biochemistry, Vol. 6, 1984, pp. 56-63
SS		CAULFIELD, M.†, "The 64-Kilodalton Membrane Protein of Bacillus Subtilis is also Present as a Multiprotein Complex on Membrane-Free Ribosomes"; Proc. Natl. Acad. Sci. USA, Vol. 81, December 1984, pp. 7772-7776
SS		LEVY, R., et al.; "Inhibition of Calcification of Bioprosthetic Heart Valves by Local Controlled-Release Diphosphonate"; Science; Vol. 228; April 12, 1985; pp. 190-192
SS	6	CUMBER, A.J., et al.; "Preparation of Antibody-Toxin Conjugates"; Methods in Enzymology; Vol. 112; 1985; pp. 207-225
SS		BLÄTTLER, W., et al.; "New Heterobifunctional Protein Cross-Linking Reagent that Forms an Acid-Labile Link"; Biochemistry; 1985; Vol. 24; pp. 1517-1524
SS	7	RINK, H.; "Solid-Phase Synthesis of Protected Peptide Fragments using a trialkoxy-Diphenyl-Methylester Resin"; Tetrahedron Letters; Vol. 28; No. 33; 1987; pp. 3787-3790
SS	8	HAMADA, H., et al.; "Determination of Membrane Antigens by a Covalent Crosslinking Method with Monoclonal Antibodies"; Analytical Biochemistry; 160; 1987; pp. 483-488
SS		NOVICK, et al.; "The Human Interferon- γ Receptor"; The Journal of Biological Chemistry; Vol. 262; No. 18; June 25, 1987; pp. 8483-8487
SS		DURING, M., et al.; "Controlled release of Dopamine from a Polymeric Brain Implant: In Vivo Characterization"; Annals of Neurology; Vol. 25; No. 4; April 1989; pp. 351-356
SS	9	HOWARD, M., et al.; "Intracerebral drug delivery in rats with lesion-induced memory deficits"; J. Neurosurg.; Vol. 71; July 1989; pp. 105-112

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SS		MEANS, G.†, et al., "Chemical Modifications of Proteins: History and Applications", Bioconjugate Chem, Vol. 1, 1990, pp. 2-12	
SS		MANIATIS, T., Molecular Cloning, A Laboratory Manual, 2 nd Ed., Cold Spring Harbor Laboratory, Cold Spring Harbor, New York, 1990, pp. 16.1-17.44	
SS		FONG, S., et al., "Scanning Whole Cells with Phage-Display Libraries: Identification of Peptide Ligands that Modulate Cell Function", Drug Development Research, Vol. 33, 1994, pp. 64-70	
SS		LIN, Y. ‡, et al.; "Inhibition of Nuclear Translocation of Transcription Factor NK-kappaB by a Synthetic Peptide Containing a Cell Membrane-permeable Motif and Nuclear Localization Sequence" The Journal of Biological Chemistry, Vol. 270, No. 24, June 16, 1995, pp. 14255-14258	
SS		LIN, et al., "Role of the Nuclear Localization Sequence in Fibroblast Growth Factor-1-stimulated Mitogenic Pathways*", The Journal of Biological Chemistry, Vol. 271, No. 10, March 8, 1996, pp. 5305-5308	
SS		KING, D., et al.; "A cleavage method which minimizes side reactions following Fmoc solid phase peptide synthesis"; Int. J. Peptide Protein Res.; 36; 1990; pp. 255-266	
SS		LIU, X., et al.; "Identification of a Functionally Important Sequence in the Cytoplasmic Tail of Integrin β_3 by Using Cell-Permeable Peptide Analogs"; Proc. Natl. Acad. Sci. USA; Vol. 93; October 1996; pp. 11819-11824	
SS		ROJAS, M., et al.; "Controlling Epidermal Growth Factor (EGF)-stimulated Ras Activation in Intact Cells by a Cell-permeable Peptide Mimicking Phosphorylated EGF Receptor"; The Journal of Biological Chemistry; Vol. 271; No. 44; November 1, 1996; pp. 27456-27461	
SS		FIX, J.; "Strategies for Delivery of Peptides Utilizing Absorption-Enhancing Agents"; Journal of Pharmaceutical Sciences; Vol. 85; No. 12; December 1996; pp. 1282-1285	
SS		ROJAS, M., et al.; "An Alternative to Phosphotyrosine-Containing Motifs for Binding to an SH2 Domain"; Biochemical and Biophysical Research Communications; 234; 1997; pp. 675-680	
SS		ROJAS, M., et al.; "Genetic Engineering of Proteins with Cell Membrane Permeability"; Nature Biotechnology; Volume 16; April 1998; pp. 370-375	
SS		EASON, P.D. et al., "A Potent Oligosaccharyl Transferase Inhibitor that Crosses the Intracellular Endoplasmic Reticulum Membrane", Biochemistry, Vol. 38, No. 4, August 1999 pp. 5430-5437	
SS		NEZIL, F.A. et al., "Combined Influence of Cholesterol and Synthetic Amphiphilic Peptides upon Bilayer Thickness in Model Membranes", Biophysical Journal, Vol. 61, May 1992, pp. 1176-1183	
SS		International Search Report for Application No. PCT/IB/01491	
EXAMINER		CONSIDERED	3/12/03

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